

**Battery monitoring device and method.****Publication number:** ES2145026T**Publication date:** 2000-07-01**Inventor:** REHER MICHAEL T (US)**Applicant:** C & D CHARTER HOLDINGS INC**Classification:****- international:** **G01R31/36; H01M10/48; G01R31/36; H01M10/42;**  
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A battery monitor (10) which monitors the operating parameters of a battery (12) to provide an indication of, for example, the absolute state of charge, the relative state of charge, and the capacity of the battery under battery discharge, rest, and recharge conditions. The battery monitor (10) includes a current sensor (18) for sensing battery current, a voltage sensor (20) for sensing battery voltage, and a temperature sensor (22) for sensing battery temperature. A processor (26) approximates to a high level of accuracy the battery parameters utilizing an iterative process based upon predetermined relationships, employing empirically determined constants and parameters determined in the immediately preceding iteration stored in memory. Output signals indicative of the determined parameters are provided and may be utilized for many different battery applications.

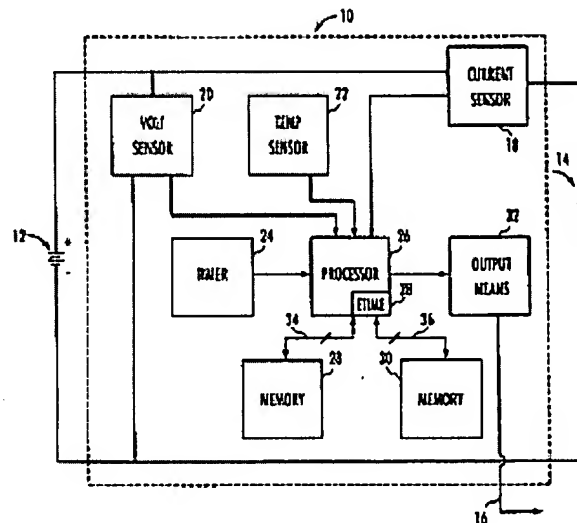


FIG. 1

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